

CU

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 02-131738

(43)Date of publication of application : 21.05.1990

(51)Int.Cl.

A61B 1/00
F16L 11/08
G02B 23/24

(21)Application number : 01-128448

(71)Applicant : OLYMPUS OPTICAL CO LTD

(22)Date of filing : 22.05.1989

(72)Inventor : OKUBO AKIHIRO
TAKAGI TAKESHI

(30)Priority

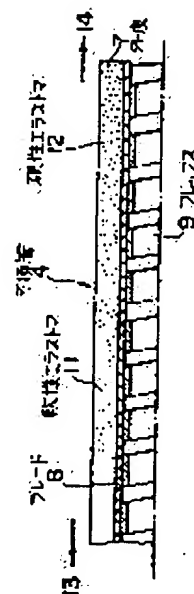
Priority number : 36310868 Priority date : 18.08.1988 Priority country : JP

(54) FLEXIBLE TUBE FOR ENDOSCOPE AND ITS MANUFACTURE

(57)Abstract:

PURPOSE: To freely vary the flexibility of a desired part by forming an outer layer of a flexible tube for an endoscope with a mixture of plural resins of different hardness, and varying arbitrarily its mixing ratio.

CONSTITUTION: A flexible tube 4 is constituted of a flex (spiral tube) 9 formed by winding spirally an elastic band-like plate, a braid (net tube) 8 braided by a metallic fine wire for covering this flex 9, and a skin 7 consisting of elastomer allowed to adhere extending over the whole periphery of the outside surface of the blade 8. The skin 7 which covers the outside peripheral surface of the braid 8 is formed by mixing soft elastomer 11 and hard elastomer 12. Its mixing ratio is formed so that a ratio of the hard elastomer 12 becomes higher gradually toward an operating part body side 14. That is, as for a tip constituting part side 13, the soft elastomer 11 and the hard elastomer 12 are mixed by a large quantity and a small quantity, respectively since the flexibility is necessary.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office